Integrin alpha 4 Antibody

CATALOG NUMBER: 4783

Western blot analysis of Integrin alpha 4 in Jurkat cell lysate with Integrin alpha 4 antibody at 1 ug/mL in (A) the absence and (B) the presence of blocking peptide.

Specifications

SPECIES REACTIVITY: Human, Mouse, Rat
TESTED APPLICATIONS: ELISA, WB
APPLICATIONS: Integrin alpha 4 antibody can be used for the detection of Integrin alpha 4 by Western blot at 1 ug/mL. Despite its predicted molecular weight, Integrin alpha4 will often run at higher molecular weight in SDS-PAGE.
USER NOTE: Optimal dilutions for each application to be determined by the researcher.
POSITIVE CONTROL: 1) Cat. No. 1205 - Jurkat Cell Lysate
SPECIFICITY: At least two isoforms are known to exist. The immunogen to this antibody is outside of the Integrin alpha4 recombinant protein fragment and thus will not recognize it.
IMMUNOGEN: Integrin alpha 4 antibody was raised against a 13 amino acid synthetic peptide from near the carboxy terminus of human Integrin alpha 4.
The immunogen is located within the last 50 amino acids of Integrin alpha 4.

HOST SPECIES: Rabbit

Properties

PURIFICATION: Integrin alpha 4 Antibody is affinity chromatography purified via peptide column.
PHYSICAL STATE: Liquid
BUFFER: Integrin alpha 4 Antibody is supplied in PBS containing 0.02% sodium azide.
CONCENTRATION: 1 mg/mL
STORAGE CONDITIONS: Integrin alpha 4 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
CLONALITY: Polyclonal
ISOTYPE: IgG
CONJUGATE: Unconjugated

**Additional Info**

<table>
<thead>
<tr>
<th>ALTERNATE NAMES:</th>
<th>Integrin alpha 4 Antibody: IA4, CD49D, Integrin alpha-4, CD49 antigen-like family member D</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCESSION NO.:</td>
<td>NP_000876</td>
</tr>
<tr>
<td>PROTEIN GI NO.:</td>
<td>67191027</td>
</tr>
<tr>
<td>OFFICIAL SYMBOL:</td>
<td>ITGA4</td>
</tr>
<tr>
<td>GENE ID:</td>
<td>3676</td>
</tr>
</tbody>
</table>

**Background**

BACKGROUND: Integrin alpha 4 Antibody: The integrin alpha 4 (also known as CD49d and ITGA4) belongs to the integrin alpha chain family of proteins. Integrins are heterodimeric integral membrane proteins composed of an alpha and beta chains. Alpha4 chain associates with either beta1 or beta7 chain. It has been demonstrated that the putative ligand-binding sites of both integrin alpha4beta1 and alpha4beta7 is located on the alpha4 chain. These ligands included Madcam, VCAM, and fibronectin. Madcam is known as the principal ligand for integrin alpha4beta7. Recently it was also demonstrated that HIV-1 envelope can mimic Madcam by binding to and signaling through integrin alpha4beta7, the gut mucosal homing receptor for peripheral T cells.

REFERENCES:


FOR RESEARCH USE ONLY